

In the Claims:

1. A method of removing free product from a groundwater, comprising:

determining the existence of any free product in the groundwater;

5 providing at least one extraction point in communication with the collection of free product;

placing said at least one extraction point in communication with a vacuum source; and

removing the free product from the
10 groundwater.

2. The method of claim 1, further comprising:

providing a plurality of extraction points in communication with the collection of free product.

15 3. The method of claim 1, wherein the free product is located on top of a surface of the groundwater.

4. The method of claim 1, wherein the free product is located in soil in the groundwater.

20 5. The method of claim 3, further comprising:

disposing said at least one extraction point in communication with the free product just above said surface of the groundwater.

RECORDED - CERTIFIED COPIES SENT

6. The method of claim 5, further comprising:

monitoring an entrained flow of free product from said at least extraction point to said vacuum source.

7. The method of claim 1, further comprising:

adjusting the depth of said at least one extraction point as required.

10 8. The method of claim 1, further comprising:

removing said vacuum source and connecting said at least one extraction point to a source of oxygen to remediate the groundwater.

15 9. A system for recovering free product from subterranean groundwater, comprising:

a monitoring well in communication with the groundwater to determine the existence of any free product located therein;

20 at least one extraction point extending below ground and into communication with the groundwater; and

a vacuum source in communication with said at least one extraction point to supply suction to draw said free product from the groundwater through said at least one extraction point.

RECORDED - 08274574

10. The system of claim 9, further comprising:

a plurality of extraction points extending below ground and into communication with the
5 groundwater.

11. The system of claim 9, wherein said free product is located on a surface of the groundwater in a groundwell.

12. The system of claim 9, wherein said free
10 product is located in soil in the groundwater.

13. The system of claim 10, further comprising:

a manifold having a plurality of inlet portions each in communication with a respective one of
15 said plurality of extraction points and an outlet portion in communication with said vacuum source.

14. The system of claim 9, wherein said vacuum source is a vac truck.

15. The system of claim 9, wherein said at
20 least one extraction point is located in the groundwater to provide an entrained flow of free product.

16. The system of claim 9, further comprising:

RECORDED 7/23/02 - 0241402

a clear hose disposed between said at least one extraction point and said vacuum source allowing the fluid flow to be monitored.

17. The system of claim 9, wherein said at least one extraction point includes a tubular member extending downward from below ground and into communication with the free product.

18. The method of claim 17, wherein said tubular member has a lower portion with a screen disposed thereon to allow free product to flow from the groundwater into said tubular member.

19. The system of claim 9, wherein the height of said at least one extraction point is adjustable.

15 20. A system for recovering free product from a subterranean body of groundwater, comprising:
 at least one monitoring well in communication with the groundwater to determine the existence of any free product located therein;
20 at least extraction tube extending downward from below ground to form an extraction point adjacent the groundwater;
 a vacuum source in communication with said at least one extraction tube to draw the free product from
25 the surface of the groundwater.

2010 RELEASE UNDER E.O. 14176

21. The system of claim 20, further comprising:

a plurality of extraction tubes extending downward from below ground to form respective
5 extraction points adjacent the groundwater.

22. The system of claim 21, further comprising:

a manifold having a plurality of inlet portions each in communication with a respective one of
10 said plurality of extraction points and an outlet portion in communication with said vacuum source.

23. The system of claim 21, wherein a clear hose connects an upper end of each of said plurality of extraction points to a respective one of said plurality
15 of inlet portions of said manifold.

24. The system of claim 21, wherein each of said plurality of inlet portions has a valve associated therewith to control flow of fluid therethrough.

25. The system of claim 20, wherein said at least one extraction tubular has a lower portion with a screen disposed thereon to allow free product to flow from the groundwater into said tubular member.

26. The system of claim 20, wherein said at least one extraction tube can be adjusted in an upward
25 and downward direction.

20497647 20497648 20497649 20497650 20497651